

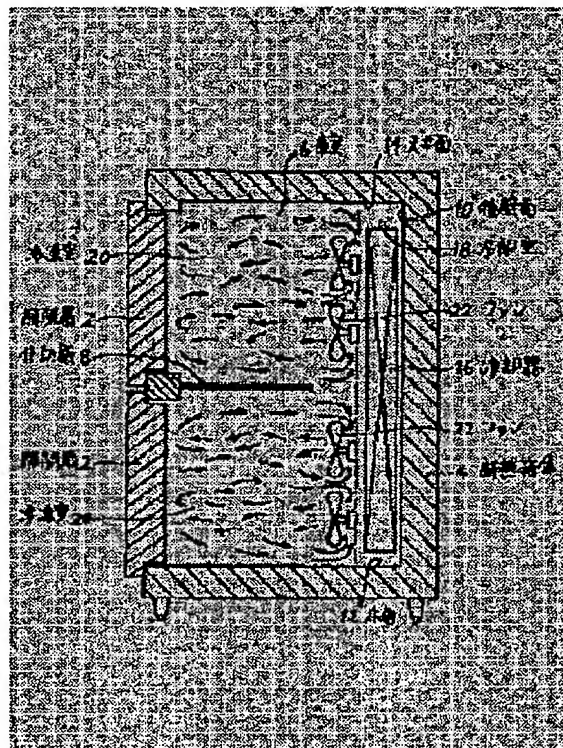
# REFRIGERATOR WITH NON-FROST DEPOSITED COOLER AND REFRIGERATING METHOD THEREOF

Patent number: JP6273030  
 Publication date: 1994-09-30  
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 Classification:  
 - International: F25D11/04; F25D17/06; F25D21/04; F25D11/04;  
 F25D17/06; F25D21/00; (IPC1-7): F25D11/04;  
 F25D17/06; F25D21/04  
 - european:  
 Application number: JP19930087919 19930322  
 Priority number(s): JP19930087919 19930322

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## Abstract of JP6273030

**PURPOSE:** To hold a water content in a food and prevent a frost from being deposited on a cooler by allowing a cooling air blown out in a refrigerating chamber by a fan to be sucked up and blown out again into the refrigerating chamber by the fan without returning to a cooling after its flow started and heat-exchanging and cooling the air in the refrigerating chamber on a bordering interface of an air layer with the cooling chamber.  
**CONSTITUTION:** When driving a fan 22 by operating a cooler 16, a large amount of cooling air in a cooling chamber 18 is blown into a refrigerating chamber 20. The cooling chamber is in a negative pressure state inside during this operation. The blown-in air 20 is reflected inside a door 2. This reflected air flow and an entered air flow repeat a collision inside the refrigerating chamber 20 so that the air flow in the refrigerating chamber may be turned into a turbulent state in a broader sense. The air flow circulating in the turbulent state is sucked up from the sides and the rear of the fan 22 and blown into the refrigerating chamber 20 again. The air circulation between the refrigerating chamber 20 and the cooling chamber 18 is cut off on the bordering interface of the air layer, which prevents the aqueous steam in the refrigerating chamber from being deposited on the cooler, thereby eliminating the need for a defrosting device for the cooler 16.



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